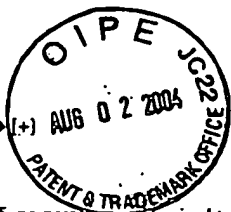


Please type a plus sign (+) inside this box →



PTO/SB08A (10-01)
Approved for use through 10/31/2002 OMB 0651-0031
Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

SHEET 1 of 1

COMPLETE IF KNOWN

Application Number	10/048,083
Confirmation Number	
Filing Date	January 24, 2002
First Named Inventor	F. F. Sherman et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	7900

U. S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	DOCUMENT NUMBER Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JKE		2,468,430	04-26-1949	Derkson	
JKE		3,838,299	09-24-1974	Elkuch	
JKE		4,177,327	12-04-1979	Mathews et al.	
JKE		4,913,983	04-03-1990	Cheiky	
JKE		5,054,522	10-08-1991	Kowanz et al.	
JKE		5,178,190	01-12-1993	Mettner	
JKE		5,304,431	04-19-1994	Schumm, Jr.	
JKE		5,400,824	03-28-1995	Gschwendtner et al.	
JKE		5,449,569	09-12-1995	Schumm, Jr.	
JKE		5,541,016	07-30-1996	Schumm, Jr.	
JKE		5,631,514	05-20-1997	Garcia et al.	
JKE		5,837,394	11/17/1998	Schumm, Jr.	
JKE		6,074,775	06-13-2000	Gartstein et al.	
JKE		6,163,131	12-19-2000	Gartstein et al.	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	FOREIGN PATENT DOCUMENT Country Code ² Number Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁴
JKE		WO 99/16096 A1	04-01-1999	MCNC		
JKE		WO 99/37013 A1	07-22-1999	Seagate Technology, Inc.		
JKE		EP 0 829 649 A2	03-18-1998	Fraunhofer Ges Forschung		X
JKE		WO 01/09519 A1	02-08-2001	The Procter & Gamble Co.		
JKE		WO 01/09520 A1	02-08-2001	The Procter & Gamble Co.		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume(issue number(s)), publisher, city and/or country where published	T ⁴
JKE		ERNEST J. GARCIA and JEFFRY J. SNIEGOWSKI, "Surface Micromachined Microengine," Elsevier Science S.A., 02/07/95, pgs. 203-214	
JKE		FAIZ SHERMAN, ET AL, "In-Plane Microactuator for Fluid Control Application," The Eleventh Annual International Workshop on Micro Electro Mechanical Systems, 01/98	
JKE		LEE A. P. ET AL, "Polysilicon Angular Microvibrators," Journal of Microelectromechanical Systems, 06/01/92, pgs. 70-76, vol. 1, no. 2, New York	
JKE		TIEN N. C. ET AL, "Impact-Actuated Linear Microvibrators for Micro-Optical Systems On Silicon," Technical Digest of the International Electron Devices Meetings, 10/22/1995, pgs. 924-926, vol. Meeting 40, New York	

EXAMINER

DATE CONSIDERED

3/10/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.